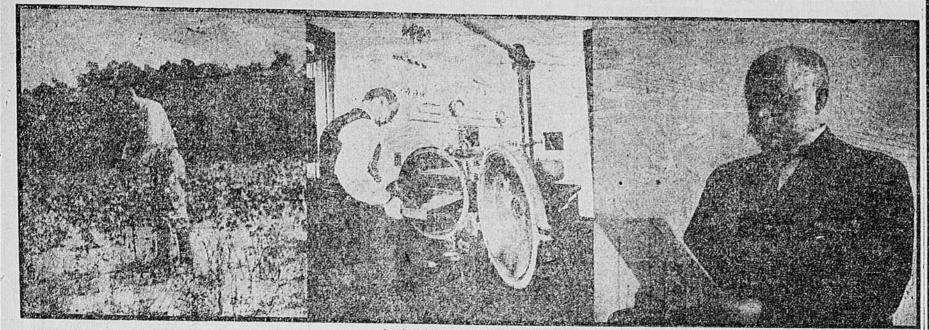
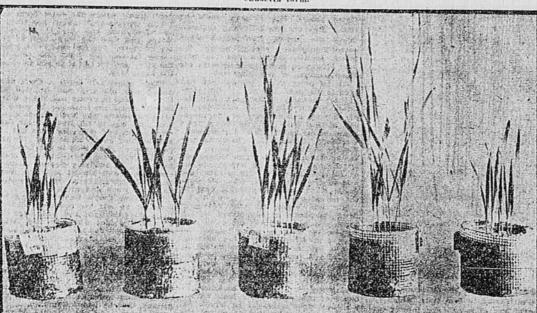
Government's Big Soil Survey---How Uncle Sam is Waffing the Country for Investor and Farmer---Medicine for Sick Lands



BY FRANK G. CARPENTER.



ir soils are. How the United States Was Made.

How the United States Was Made. Dr. Whitney could tell you just about how the United States was made. He knows where the soils came from and how they were laid down upon the rocky surface of the globe. I have before me a map made by his bureau which shows our great soi; provinces. It is in many colors, each of which describes the land of its location. In the first place there are the soils which have been washed down from the mountains. This ig disintegrated rock, which

tains. This is disintegrated rock, which has rolled over and over, in these

in a cylinder one-fourth of an inch in diameter and half an inch long.

There are other solis which have even more particles than this, and it is said that the best wheat lands and grass lands are so fine that from tent fourteen billion separate particles or grains may be crowded into a thimble.

These particles are usually roundish in shape. They are separated by air spaces, and a single cubic foot of soil is said to expose to the roots of the plants an area of surface equal to three acres. That is, each particle can be reached on all sides, and the aggregate surface of these billions of particles equals three acres. It is according to the division of the particles and the character of their contents, as well as according to the way they have been laid down, that we know what our soils are.

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an interior in the state of the certain and Sant at lover Central and

They are of advantage to the railroads, who can use the information for the placing of immigrants, and to settlers and land buyers of every description. I understand that the railroads are already using them very extensively and are making the investigations of the bureau the basis for the building up of their traffic and of settling their lands.

Indeed, I feel unable to express the great value of the work which the Bureau of Soils is doing for the country. It not only tells us what our lands

Bureau of Solls is doing for the country. It not only tells us what our lands are, but how each kind should be treated that fertility may be increased. Among the work of its laboratories are recent discoveries in the renovation of solls. Dr. Whitney does not think they lands can wear out, and believes that good handling can restore the original forces of almost any soll upon earth. He says that lands in the Orient which have been farmed for twenty centuries have been farmed for twenty centuries are still producing good crops, and that the soil which was tilled when William the Conqueror came into Eng-land still keeps up the average wheat yield of that country to about thirty-

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